

PAT-NO: JP402118319A

DOCUMENT-IDENTIFIER: JP 402118319 A

TITLE: CONTROL SYSTEM HAVING
SELF-DIAGNOSTIC FUNCTION CUSTOM
GAS HEATER FOR COOLING AND HEATING

PUBN-DATE: May 2, 1990

INVENTOR-INFORMATION:

NAME

NAM, DONG-YUL

COUNTRY

N/A

ASSIGNEE-INFORMATION:

NAME

SAMSUNG ELECTRONICS CO LTD

COUNTRY

N/A

APPL-NO: JP01226342

APPL-DATE: August 31, 1989

PRIORITY-DATA: 888811217 (August 31, 1988) , 888816265 (December 7, 1988)

INT-CL (IPC): F23N005/26, F23N005/24 , F24F011/02

ABSTRACT:

PURPOSE: To enable a control system custom gas heater for cooling and heating to satisfy various desires of consumers and to quickly clear up the causes of faults, by giving a self-diagnostic function which can raise the fire power of a custom heater to a set value by performing A/D conversion on the feedback current of a linear gas valve at a high speed to the control system.

CONSTITUTION: A control system is constituted of a

routine of a sequence
which turns on the operation of a custom heater in a
prescribed operation
sequence, a pre-purge sequence, a pre-ignition sequence, an
ignition detecting
sequence, a weak ignition sequence, a heating (weak)
operation sequence, and a
heating (strong) operation sequence, a routine for
accomplishing the system
operation of a self-diagnostic function, etc. As the
operation sequence
advances, normal operation displays, abnormal state
displays, reset displays,
and buzzer drive and digit displays are made. When an
external interruption is
permitted, a clock interruption and the external
interruption are made to be
accomplished simultaneously. The external interruption is
made to be
accomplished in an external interruption routine which is
made in the stage,
etc., in which the timer interruption is made to be
permitted.

COPYRIGHT: (C)1990,JPO